Life Cycle Sustainment (LCS) in DAMIR

Briefing by

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Overview

- USD(AT&L) Support of Integrating Sustainment into Life Cycle Management
- Background of LCS in DAMIR
- Current Status of LCS in DAMIR
- Future of LCS in DAMIR
- Summary

USD(AT&L) Support of Integrating Sustainment into Life Cycle Management

- FY2007 AT&L Goals (Krieg)
  - 4.1.1 Integrate Life Cycle Management Principles into “Big A” acquisition and sustainment processes/decisions
- USD(AT&L) Priorities to End of Term (Young)
  - Priority 2 Life Cycle Management
  - Carried over from Krieg’s AT&L Goals

Background of Sustainment in DAMIR

- Sustainment related issues were previously covered under the Logistics heading in the quarterly DAES report
- The DAES report contained minimal sustainment related content
  - PM's assessment
  - Operations and Support Costs
- In June 2006, DUSD(A&T) turned off the assessment of Logistics (and six other assessment areas)
  - Remaining assessments:
    - Cost
    - Schedule
    - Performance
    - (Funding was added back several months later)

DUSD(A&T) Memorandum

- 2 March, 2007 memorandum signed by DUSD(A&T)
  - Added LCS as a fifth assessment into the *monthly* DAES Program Status Charts hung in DAMIR
  - However, unlike the other assessments, there was no link to the quarterly DAES Report
- The PM did not submit a LCS assessment

DUSD(L&MR) Memorandum

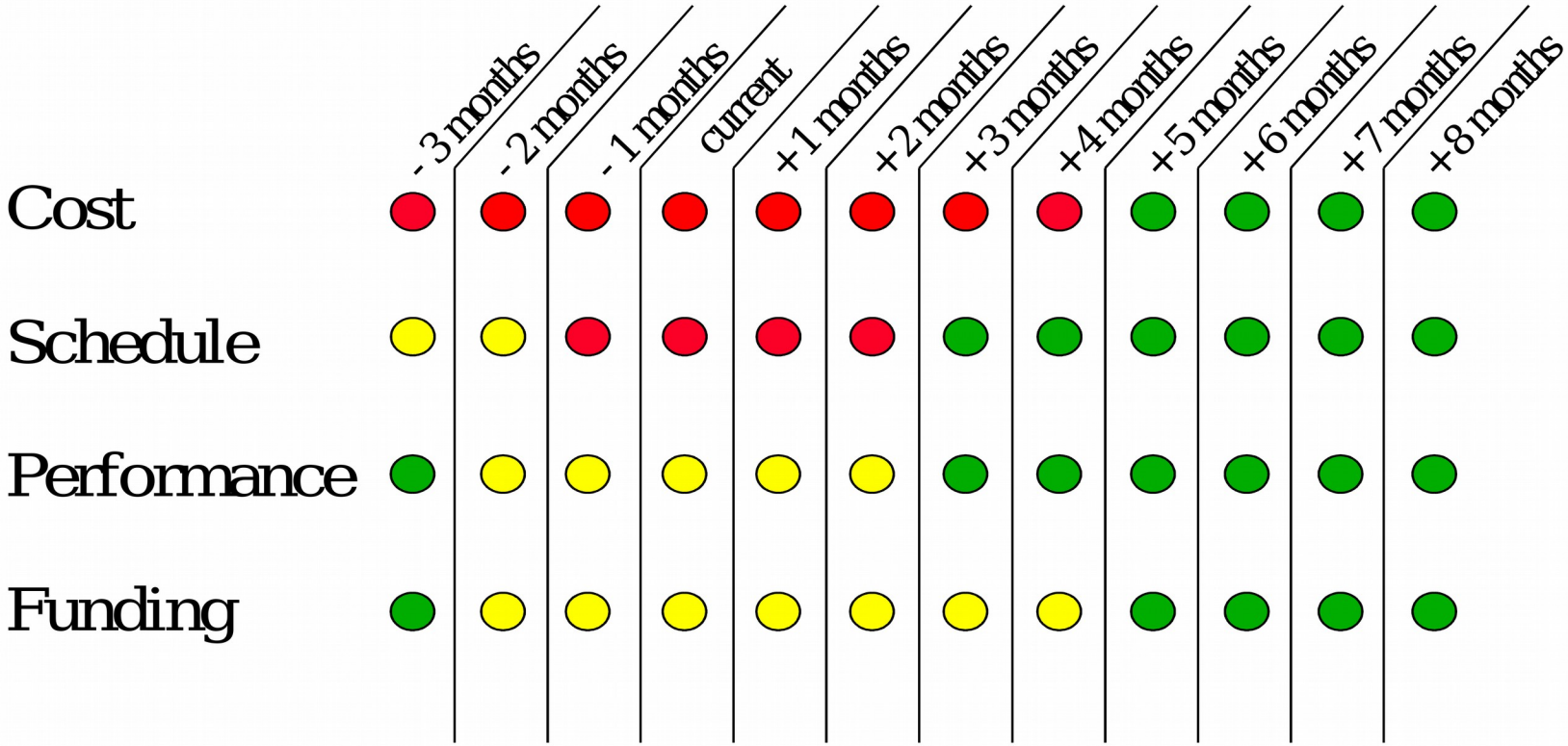
- 10 March, 2007 memorandum established the four Life Cycle Sustainment (LCS) metrics
  - The four metrics:
    - Materiel Availability
    - Materiel Reliability
    - Ownership Cost
    - Mean Down Time
- Requested the Services to begin reporting as soon as practicable on the metrics in DAMIR
- L&MR memorandum was timed to go along with the DAES memorandum from DUSD(A&T)

Monthly Status Chart Pre - 2 March A&T Memo

Pre-Decisional – For Official Use Only

Program XYZ **15 FEB 2007**

Program Status



Comments:

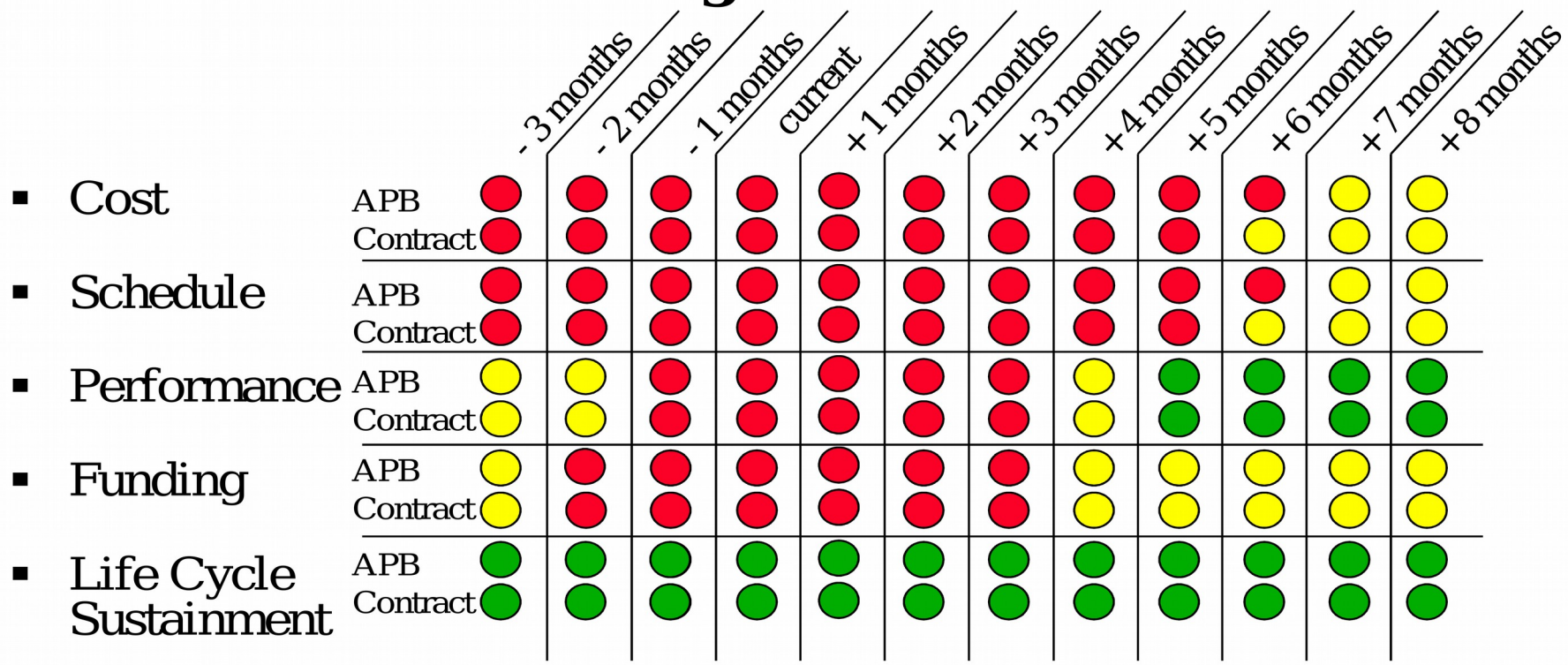
All assessments are in accordance with the current approved APB dated 26 July 2005.

Monthly Status Chart Post - 2 March A&T Memo

Pre-Decisional – For Official Use Only

Program XYZ **Date: 15 July 2007**

Program Status



Comments: All assessments are in accordance with the current approved APB dated 26 July 2005 and the XYZ SDD Contract ABCDEFG-1234 dated/signed 29 July 2005.

Green: Meets all Contracts/APB Reqmts **Yellow:** Resolvable Contracts/APB Issues **Red:** Can not meet Contracts/APB Reqmts

As of 10 Jul 2007

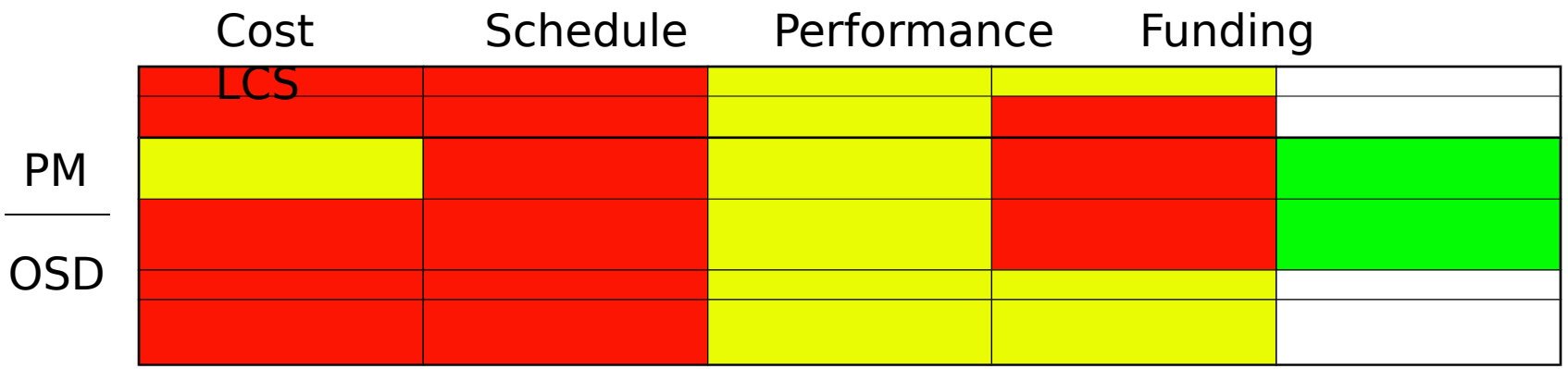
Pre-Decisional – For Official Use Only

28 August DUSD(A&T) DAES Memorandum

- Memorandum directed Services begin making quarterly DAES assessments for LCS
- Reactivated Logistics field in CARS and renamed it LCS
  - Assessments based on the four LCS Metrics
    - Materiel Availability
    - Materiel Reliability
    - Ownership Cost
    - Mean Down Time
- Directs the PM to address LCS in their assessment, not Logistics

Resulting Quarterly DAES Assessment

Program XYZ



Bringing LCS into DAMIR

- Draft memorandum implements requirements of the 10 March DUSD(L&MR) memorandum for data reporting into DAMIR and Service Management Information Systems
  - Provides instruction for reporting on the LCS metrics, which will then be displayed in DAMIR
- Directs reporting against four LCS metrics as well as enablers into DAMIR
  - Metrics be reported quarterly and enablers as changes occur
  - Temporarily requires manual submission in spreadsheet format
- The Services will send the spreadsheets to L&MR maintained email address atllcsmetrics@osd.mil
  - Metrics are reviewed and then sent to DAMIR team for posting into the Purview function

Sample Spreadsheet Input

Date:	**Life Cycle Sustainment Input Sheet Template**					
Metric	**Original Baseline Requirement**	**Date**	**Current Baseline Requirement**	**Date**	**Current Estimate**	**Description of how value is calculated**
Materiel Availability	68.5%	XX/XXXX	70%	XX/XXXX	71%	Materiel Availability is calculated by taking the total amount of systems and dividing by the number of systems available for mission tasking, taken as an average over one fiscal year
Materiel Reliability	55 hours	XX/XXXX	60 hours	XX/XXXX	61 hours	Materiel Reliability is taken from the existing MTBF parameter defined in the program CPD. Value represents average of total operating hours over total number of failures over a planned seven day operation
Ownership Cost	$124.56M	XX/XXXX	$133.78M	XX/XXXX	$135.42 M	Ownership cost is the sum of the defined CAIG cost elements listed in the DUSD(L&MR) memorandum and defined in the Joint Staff 3170.01 guidance
Mean Down Time	15 hours	XX/XXXX	12 hours	XX/XXXX	13 hours	Mean Down Time is calculated by averaging the total down time to repair a failure over the total number of failures

Purpose of Data

- Data will be available for multiple uses
  - Assessing DAES reports
  - Preparing principals for OIPTs, DABs and other reviews
  - Cross service or system portfolio examination of sustainment performance
- Information stored on DAMIR is available to all authorized DAMIR users

DAMIR 3.0 and Beyond

- A subsequent version of DAMIR 3.0 will automate LCS submissions
  - Eliminates need for spreadsheets
  - Cuts down on administrative burden
  - Automated system allows information contained on the spreadsheets to be pulled into DAMIR
- DAMIR will pull the data from Service information systems (SMART, AIM, Dashboard)
  - L&MR has set the requirements for the metrics
  - The DAMIR team will work with the Services to establish the technical processes to accomplish the pull
- LCS will be a separate heading in the DAMIR system under the Purview tool
  - Similar to the Earned Value section

Summary

- LCS is a key consideration of the Life Cycle Management process
  - The four LCS metrics help OSD and the services define, execute and report on the sustainment of weapon systems for the warfighter
- Past review processes and reports gave little insight into LCS
- DAMIR is the tool to allow OSD, the Services and individual programs the flexibility to report, monitor and assess LCS